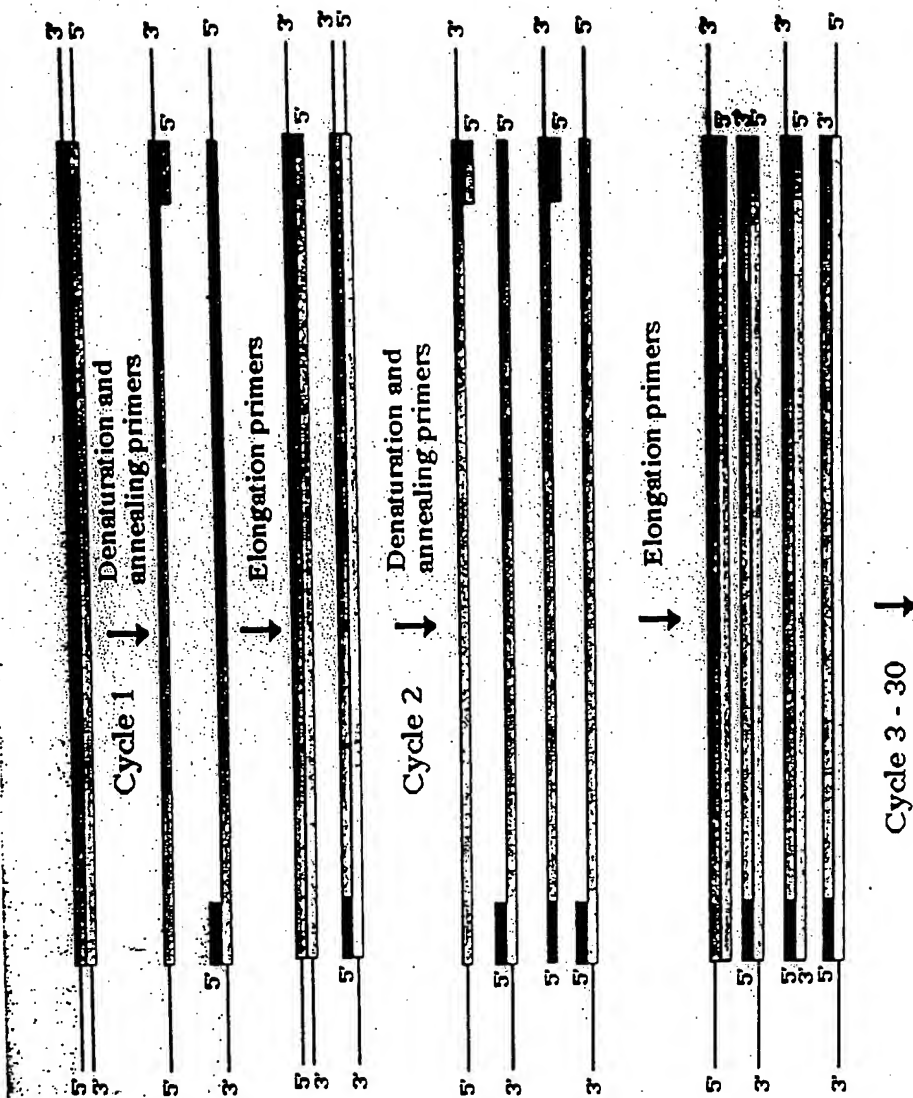


Use modified primers in PCR



BEST AVAILABLE COPY

After PCR the end of primer can be removed



Treatment to remove end of primer segment



Fig. 2

The protruding ends can be made at one or both ends of the PCR fragment



Treatment to remove end of primer segment



Fig. 3

A biotin can be attached to the end of a DNA fragment
then ligations can be done sequentially with the DNA
attached to the bead

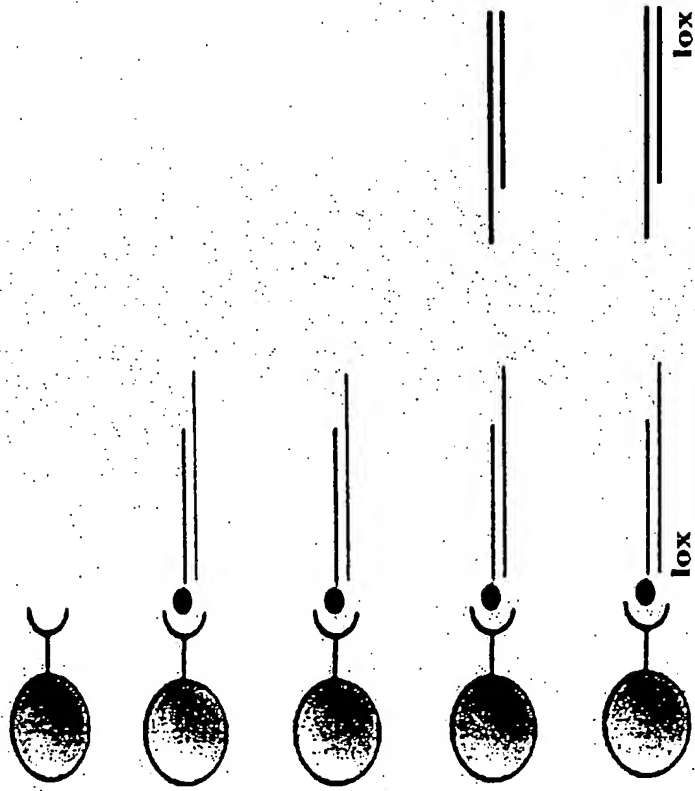


Fig. 4

Using an enzyme system to remove the DNA from the bead and circularize it

- By introducing a lox site in the DNA near the ends the DNA can be acted upon by the cre recombination enzyme
- By having replication and selection functions on the DNA between the lox sites the circularized DNA will form a functional plasmid capable of transforming cells

Fig. 5

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.